

Report for January 2022

NWS FORM E-5

U.S. DEPARTMENT OF COMMERCE NOAA, NATIONAL WEATHER SERVICE

MONTHLY REPORT OF RIVER AND FLOOD CONDITIONS

TO: NATIONAL WEATHER SERVICE (W/OH12x1) HYDROMETEOROLOGICAL INFO CENTER 1325 EAST-WEST HIGHWAY, RM 7116

SILVER SPRING, MD 20910

HSA OFFICE: Marquette, MI

REPORT FOR (MONTH / YEAR):

January 2022

DATE: February 7, 2022

SIGNATURE:

Ryan Connelly, Asst. Hydro Program

Manager

Robin J. Turner, MIC

When no flooding occurs, include miscellaneous river conditions, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (WSOM E-41).



An X inside this box indicates no flooding occurred within this Hydrologic Service Area.

Summary

It was a cold and dry month across Upper Michigan with the exception of one multi-day heavy lake effect snow event early in the month. Precipitation and snowfall statistics at Ironwood, Quincy Hill, WFO Marquette, and Munising are skewed somewhat by this heavy lake effect snow event and not representative of how dry the month was after that first week. For example, at WFO Marquette, 66% of the month's precipitation and 54% of the month's snowfall fell in a four-day period between January 4-7. Average temperatures for the month were generally 4-7 degrees below normal. With it being a cold and dry month, and area rivers becoming frozen if they were not already, there was no flooding in this HSA during the month of January.

Location	Precipitation	% of Normal	Snowfall
WFO Marquette	2.76"	118%	49.5"
Marquette City	1.13"	61%	14.3"
Quincy Hill	3.22"	M	39.0"
Ironwood	1.97"	101%	38.4"
Iron Mountain	0.73"	54%	10.2"
Manistique	0.66"	39%	12.0"
Munising	3.23"	91%	55.8"
Stambaugh	0.51"	47%	10.1"

NOTE: Precipitation after 8 AM EST December 31st was counted in January stats for all but the WFO Marquette site due to the reporting structure of our cooperative observers.



Flooding Conditions

There were no flooding concerns during the month of January.

River Conditions

Basin streamflow was around normal last month.

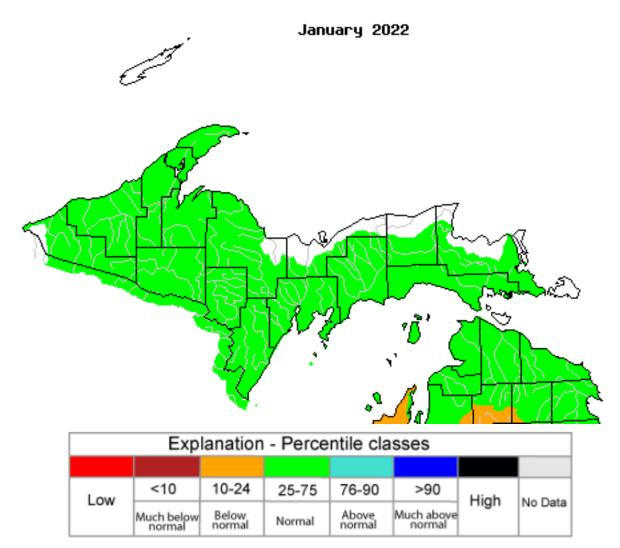


Figure 1: USGS monthly average streamflow in March 2021 across Upper Michigan



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Snowpack Conditions

With it being a mostly dry month, snow depth is now below normal in most of Upper Michigan. A few pockets of above-normal depth remain in areas that saw heavy snowfalls back-to-back in mid-December.

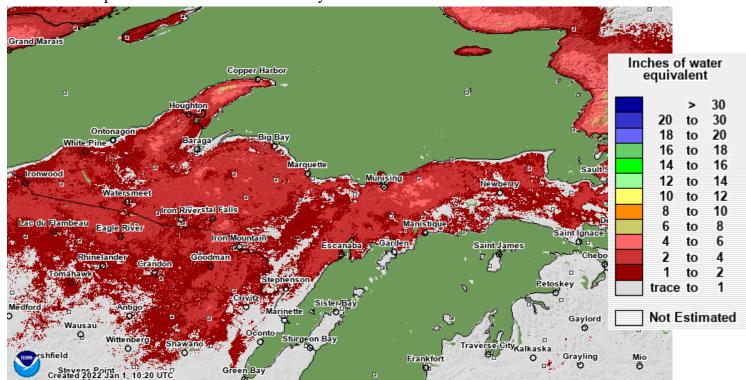
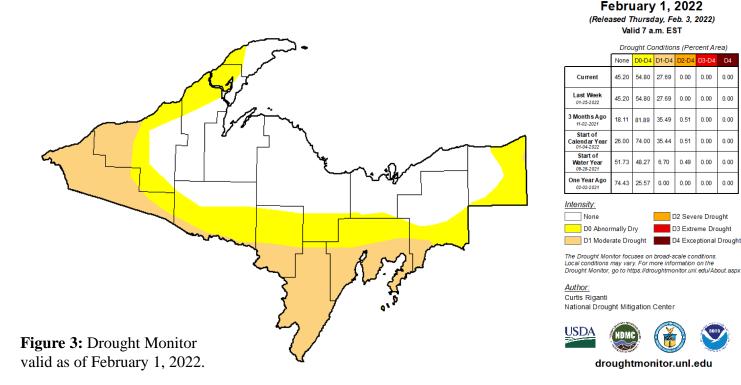


Figure 2: Current modeled snowpack snow water equivalent on January 1st.

Drought Discussion

Western and southern portions of Upper Michigan remain in Moderate Drought, as they have for the past few months. For the latest drought status, please visit http://www.drought.gov.





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Media Links

None.

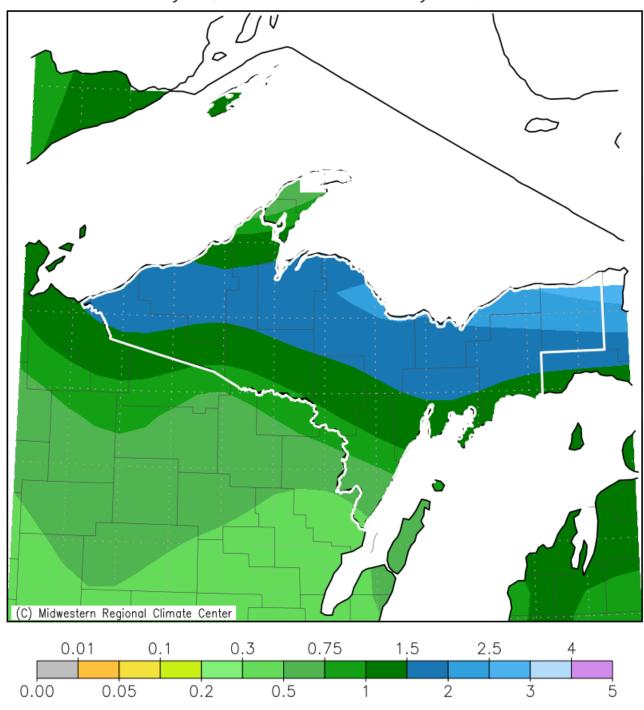
Hydro Products Issued

Product	Number
Hydrologic Outlook (ESF)	1
Flood Watch (FFA)	0
Flood Warning (FLW)	0
Flood Advisories and Statements (FLS)	0
Flash Flood Warning (FFW)	0
Flash Flood Statement (FFS)	0
Hydrologic Summary (RVA)	31
Daily River Forecasts (RVD)	0



Precipitation Summary

Accumulated Precipitation (in) January 1, 2022 to January 31, 2022



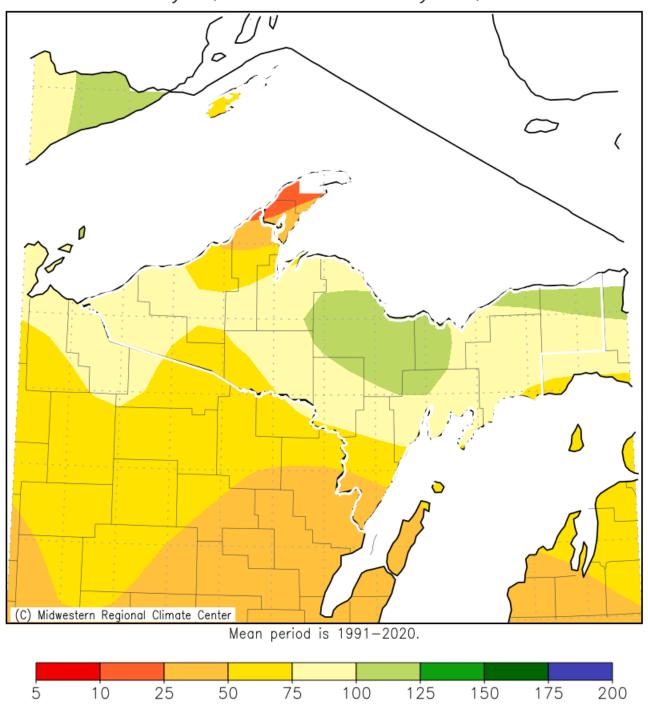
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Figure 4: January 2021 Monthly Precipitation Totals.



Precipitation Summary Continued

Accumulated Precipitation: Percent of Mean January 1, 2022 to January 31, 2022



Midwestern Regional Climate Center

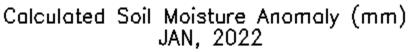
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Figure 5: January 2021 Percent of Normal of Accumulated Precipitation.

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Soil Moisture Anomaly



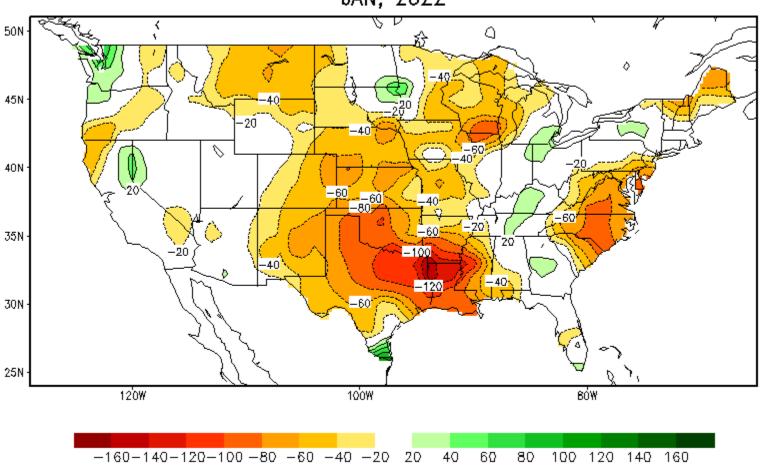


Figure 6: Climate Prediction Center's monthly average soil moisture anomaly for January 2021.